# Regional Testing of Grain Crop Varieties 2002

Project No. 2001 0363
Res: TAD3

## Final Report

S. Piché, K. Sapsford and F.A. Holm

Crop Development Centre
University of Saskatchewan

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**(a) Abstract:**

Regional Grain Crop Variety Trials were conducted at 11 off-station locations throughout Saskatchewan and at the University of Saskatchewan's Kernen Crop Research Farm near Saskatoon in 2002. The objective is to compare the performance of new varieties and lines which may soon be registered to current check varieties under various soil and growing conditions throughout the province. A secondary objective is to provide variety demonstration sites that SAFRR Extension Agrologists and other interested parties may use for local technology transfer events. Fifteen crop kinds were included in the trials and 228 different crop varieties were tested: 22 HRS Wheat, 6 Durum, 6 CPS Wheat, 7 CWES Wheat, 8 Triticale, 3 Canary Seed, 16 Oat, 26 Field Pea, 18 Dry Bean, 22 2-Row Barley, 16 6-Row Barley, 20 Lentil, 36 B. napus Canola, 4 B. rapa Canola, 18 Flax). Results were forwarded to Saskatchewan Advisory Council on Grain Crops provincial crop co-ordinators in November/December 2002 for use in revising provincial crop variety recommendations for 2003. The results of the 2002 trials and the average performance of varieties for the years 1998 through 2002 have been published in booklet form and are included with this report.

**(b) Executive Summary:**

See abstract above. This project produces a large amount of tabular data each year. Thus, the results cannot be summarized readily in this space. The most meaningful summaries are the two publications enclosed with this report and the SAF annual publication, **Varieties of Grain Crops for Saskatchewan,** which is based upon data provided by this project and other trials conducted throughout the province.

**(c) Technical Report:**

Project activities:
Regional Grain Crop Variety Trials were conducted at 11 off-station locations throughout Saskatchewan and at the University of Saskatchewan's Kernen Crop Research Farm near Saskatoon in 2002. Fifteen crop kinds were included in the trials and 228 different crop varieties were tested. Total precipitation for the April through September period ranged from 42% (Battleford) to 86% (Nipawin) of normal across all the sites and the average precipitation was 59% of normal. The severe drought conditions affected several of the trials and thus the amount of useful data collected was less than normal as the drought reduced yield and contributed to larger than desired coefficients of variation for yield data for some crops at some sites. Crop yield data at specific sites where the coefficient of variation was greater than 20% are not presented because they are considered to be unreliable. Useful data were obtained from the following numbers of locations: Wheat- 5 or 6 depending upon market class, 2-R barley – 6, 6-R barley - 5, Oat – 5, Lentil – 2, Field Pea – 6, Canola – 4, Flax – 3.

Trials were conducted at Assiniboia, Carlyle, Elrose, Girven, Saskatoon, Luseland, Battleford, Rosthern, Weyburn, Kelvington, Nipawin, Shellbrok and Hagen (flax only). The varieties included in the trials are listed in the accompanying reports. Three replicate trials were established at all sites following established procedures. Yields were obtained using a small-plot combine that harvests the entire plot. Grain samples were dried to standard moisture and cleaned prior to weighing for yield determination. Data were provided in November to appropriate crop co-ordinators for use in the preparation of the 2002 edition of "Varieties of Grain Crops for Saskatchewan".

Two publications have been produced for distribution:

**Regional Spring Grain Variety Trial – 2002**. K. Sapsford and S. Piché.
Crop Development Centre, University of Saskatchewan, Saskatoon, SK.32 pp.

**Regional Spring Grain Variety Trial – 1998 - 2002**. K. Sapsford and S. Piché .
Crop Development Centre, University of Saskatchewan, Saskatoon, SK.58 pp.

# 2002 REGIONAL VARIETY TRIAL LOCATIONS & CO-OPERATORS.

| Extension Agrologist | Site | Co-operator |
|---|---|---|
| | | |
| Dave Whitehead, Extension Agrologist<br>509 Pioneer Drive<br>North Battleford SK S9A 1E9<br><br>Phone: 306-446-7462 | North Battleford | Jim Srayko<br>Box 8<br>Denholm, Sk<br>S0M 0R0<br><br>Phone: 306-445-5727 |
| | | |
| Lewis Reeve, Ext. Agrologist<br>Box 250<br>Kelvington SK S0A 1W0<br><br>Ph: 306-327-4718 | Kelvington<br>(Kelvington Ag Society) | George Gwilliam<br>(cultivates)<br>Box 332<br>Kelvington SK S0A 1W0<br><br>Ph: 306-327-4475 |
| | | |
| Keith Bater, Extension Agrologist<br>Box 480<br>Unity SK S0K 4L0<br><br>Ph: 306-228-6400 | Luseland | Erhard Poggemiller<br>(Kep Industries in Kerrobert)<br>Box 680<br>Kerobert, SK S0L 1R0<br><br>Ph: 306-834-5353 |
| | | |
| Colin Beaulieu, Extension Agrologist<br>1106-6th St.<br>Estavan, SK S4A 1A8<br><br>Ph: 306-637-4606 | Carlyle | Bud Askin<br>Box 75<br>Arcola, Sk. S0C 0G0<br><br>Ph: 306-455-2603 |
| | | |
| Dave Hryhor, Extension Agrologist<br>3735 Thatcher Avenue<br>Saskatoon SK S7K 2H6<br><br>Ph: 306-933-5326 | Rosthern | Seager Wheeler Farm<br>Historical Society<br>c/o Larry Janzen<br>Box 476<br>Rosthern SK S0K 3R0<br><br>Ph: 306-232-5588 |
| | | |
| John Ippolito, Extension Agrologist<br>Box 640<br>Rosetown SK S0L 2V0<br><br>Ph: 306-882-5452 | Elrose | Ken Campbell<br>Box 187<br>Elrose SK S0L 0Z0<br><br>Ph: 306-378-4127 |

| Extension Agrologist | Site | Co-operator |
|---|---|---|
| Rachel Ostryk, Extension Agrologist<br>Box 580<br>Wynyard SK S0A 4T0<br><br>Ph: 306-554-2526 | Wynyard | Dan Peterson<br>Box 944<br>Wynyard SK S0A 4T0<br><br>Ph: 306-554-3423 |
| | | |
| Richard Wharton , Extension Agrologist<br>Box 693<br>Davidson SK S0G 1A0<br><br>Ph: 306-567-2806 | Girvin | Neil White<br>Box 506<br>Davidson SK S0G 1A0<br><br>Ph: 306-567-4251 |
| | | |
| Larry Lee, Extension Agrologist<br>Box 2166<br>Nipawin SK S0E 1E0<br><br>Ph: 306-862-1793 | Nipawin<br>(Sask Wheat Pool) | Al Verstraeten (cultivates)<br>Box 1137<br>Nipawin SK S0E 1E0<br><br>Ph: 306-862-5287 |
| Brian Harris, Extension Agrologist<br>Box 3003<br>Prince Albert SK S6V 6G1<br><br>Ph: 306-953-2784 | Shellbrook | Jamie Scholz<br>Box 340<br>Shellbrook SK S0J 2E0<br><br>Ph: 306-747-2493 |
| | | |
| Garry Noble, Extension Agrologist<br>Box 250<br>Assiniboia SK S0H 0B0<br><br>Ph: 306-642-7227 | Assiniboia<br>(alternate years between Lamb and Karst) | Nelson Lamb (99)<br>Box 1034<br>Assiniboia SK S0H 0B0<br><br>Ph: 306-642-3401 |

(d) Personnel:

**PERSONNEL REPORT 2001-2002**

**PROGRAM COORDINATOR**

K. Sapsford – 12 months @ 33%

**TECHNICAL STAFF:**

S. Piche - 12 months @100%

**SEASONAL STAFF (Student):**

R. Laurie - 5 month @ 100%
J. Hovland - 4 months @ 100%
B. Rugg - 4 months @ 100%

**CONSULTANTS & EMPLOYEES PAID FROM OTHER SOURCES:**

F. A. Holm, Director CDC
C. Pozniak, Assistant Professor
B. Harvey, Professor
P. Hucl, Professor
B. Rossnagel, Professor
G. Rowland, Professor
T. Warkentin, Associate Professor
B. Vandenberg, Associate Professor
B. Black, Mechanical & Shop Assistant
K. Blomquist, Field Superintendent
D. Clauson, Field & Shop Assistant
M. Freeman, Administrative Officer
M. Lee, Secretary/Payroll

(e) Equipment:
No equipment with a value > $500.00 was purchased with project funds.

(f) Project Developed Materials:

Copies of the data generated in 2002 and the Five Year Accumulated data summary are included with this report These have been printed in booklet form for distribution to SAFRR Extension Agrologists, Soils and Crops Agrologists, appropriate Provincial Specialists and ERU staff, co-operating farmers and plant breeders. Additional copies are available on request.

Project Photos:
No photos of the trials were obtained in 2002.

(g) Acknowledgement:
The financial and logistical support provided by Saskatchewan Agriculture, Food and Rural Revitalization is acknowledged at all field days and in the data summaries.

(h) Expense Statement:

To be provided by University of Saskatchewan Financial Services.

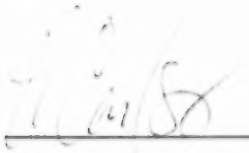
**Minutes: Technology Adoption & Demonstration Fund**
**March 15, 2002**

**Present**: Maryellen Carlson, Hal Cushon, Abdul Jalil and
Jennifer Hume (rec.)
**Regrets**: Gord Nystuen

**Proposals:**

**20010363** *REGIONAL TESTING OF GRAIN CROP VARIETIES 2002*
**CROP DEVELOPMENT CENTRE**
**Request:** $170,000
The committee was in favor of supporting this initiative. It has been an ongoing commitment for Saskatchewan Agriculture and Food.

**Decision**: Approve



Approved by Maryellen Carlson / Ass. Dep. Minister
Saskatchewan Agriculture and Food